



OFFICE OF SURVEILLANCE

Division of Environmental Health and Communicable Disease Prevention

Annual Reports by County--2001 Events

Atchison	Cole	Jackson	Pemiscot	St. Louis
Audrain	Cooper	Jasper	Pettis	St. Louis City
Barry	Crawford	Jefferson	Pike	Ste. Genevieve
Bates	Dade	Johnson	Platte	Stoddard
Benton	Dent	Lafayette	Polk	Stone
Boone	Dunklin	Lawrence	Pulaski	Sullivan
Buchanan	Franklin	Lincoln	Ralls	Taney
Butler	Gentry	Macon	Randolph	Texas
Callaway	Greene	Madison	Ray	Vernon
Camden	Grundy	Marion	Reynolds	Warren
Cape Girardeau	Hickory	McDonald	Scott	Washington
Cass	Holt	Moniteau	St. Charles	Webster
Christian	Howard	Montgomery	St. Clair	Wright
Clay	Iron	New Madrid	St. Francois	Statewide

Counties not listed did not have any events reported that met the HSEES case definition in 2001.

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Hazardous Substance Releases Profile for Atchison County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Atchison County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Phosphoric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Improper loading

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: Five gallons of phosphoric acid leaked onto the trailer floor when a bung worked loose and allowed the acid to spill. The fire department responded to the scene but did not request Department of Natural Resources (DNR) assistance, as it was thought a HazMat contractor was en route. It was later learned that a HazMat team had not been called and that no one was available at the trucking company to dispatch a contractor. DNR responded to the scene approximately one hour later and conducted the clean up.

Updated 3/3/03

Hazardous Substance Releases Profile for Audrain County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Audrain County:	1	1	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.6	0.7
Type(s) of Substance(s) Released: Ethylene Glycol Peracetic Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Equipment failure Forklift puncture

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: A shipment of peracetic acid was delivered to a facility and a drum was discovered leaking during unloading. An estimated quantity of 30 gallons was released. The cause of the leak was not known.	
During the construction of the power plant, a forklift broke a valve on the ethylene glycol/water system. 250 gallons of ethylene glycol were released.	

Updated 3/3/03

Hazardous Substance Releases Profile for Barry County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Barry County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Hydrochloric Acid Iodine Phosphorus Solvent			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 police officer	Respiratory irritation Eye irritation
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1
Interesting Events: A meth lab was discovered in a resort cabin. The officer was exposed for three hours during collection/processing of the evidence. The officer wore only gloves, eye protection and boots.	

Updated 3/3/03

Hazardous Substance Releases Profile for Bates County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Bates County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Oil Sodium Hydroxide			

Primary Contributing Factors:	Secondary Contributing Factors:
Not known	Derailment

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Hazardous Substance Releases Profile for Benton County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Benton County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Ammonia			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 police officer	Respiratory irritation
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1

Interesting Events: A police officer was exposed to an unknown amount of ammonia during the

Hazardous Substance Releases Profile for Boone County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Boone County:	2	4	6
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	2.5	2.0
Type(s) of Substance(s) Released: Ammonia Atrazine Hydrogen Peroxide Hypochlorite Mercury Paint or Coating			

Primary Contributing Factors:	Secondary Contributing Factors:
5 human error 1 factors beyond human control	2 improper loading 2 forklift punctures 1 equipment failure

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	1
Total Number of People Evacuated:	80
Number of Methamphetamine-Related Events:	0

Interesting Events: An estimated 180 pounds of ammonia were released when a forklift struck an ammonia line on a refrigeration unit. 80 employees were evacuated for one hour while the ammonia dissipated and the release was secured.

The top of a sphygmomanometer in a health care clinic had been removed by an unknown individual

Hazardous Substance Releases Profile for Buchanan County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Buchanan County:	3	3	6
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.1	1.9	2.0
Type(s) of Substance(s) Released: Ammonia Chlorofluorocarbon Ethyl Acetate			

Primary Contributing Factors:	Secondary Contributing Factors:
3 equipment failure 3 human error	Equipment failure Improper loading Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 employee	Respiratory irritation Eye irritation
Injury Outcomes:	Treated at hospital (not admitted)
Number of Events with Evacuations:	2
Total Number of People Evacuated:	40
Number of Methamphetamine-Related Events:	0

Interesting Events: An employee at a food processing facility was sprayed in the face with an unknown amount of ammonia solution while checking an ammonia line on top of the roof. The employee had turned a cap on the line in order to adjust the temperature.

An ammonia coil inside a water tank ruptured at a food processing facility, causing 1,000 pounds of ammonia to be released to the cooling water and the atmosphere. Ten employees were evacuated for one hour as a precaution.

Hazardous Substance Releases Profile for Butler County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Butler County:	3	1	4
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.1	0.6	1.3
Type(s) of Substance(s) Released: Chlorine Hydrogenated Terphenyls Liquid Nitrogen Nitrogen Fertilizer Urea			

Primary Contributing Factors:	Secondary Contributing Factors:
2 human error 1 equipment failure 1 illegal act	Motor vehicle accident/rollover Fire

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
6 employees	Respiratory irritation Thermal burns
Injury Outcomes:	All treated at a hospital and admitted
Number of Events with Evacuations:	1
Total Number of People Evacuated:	2500
Number of Methamphetamine-Related Events:	0

Interesting Events: Piping failed at an adhesives manufacturing facility and caused an internal release of heat transfer fluid (Dowtherm). The release caused a vapor cloud to form; the vapors found an ignition source and caused a flash fire. Other materials on-site included liquid nitrogen, toluene, terephthalic acid, propylene glycol, polymethylene polyphenyl isocyanate, hexamethylene diisocyanate and hydrogenated terphenyls, which prompted the evacuation 2,500 individuals in the industrial complex. Some of the liquid nitrogen was released, but the amount threatened to be released prompted the evacuation. Five injured employees were airlifted to a St. Louis hospital and admitted for treatment of second- and third-degree burns.

An employee was changing chlorine cylinders at a water treatment facility and failed to shut a pressurized cylinder valve. The gas was released to the building. The employee's supervisor closed the valve and turned on an emergency ventilation fan. Both employees working at the time self-evacuated. One employee suffered respiratory irritation and was admitted to the hospital.

Updated 3/3/03

Hazardous Substance Releases Profile for Callaway County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Callaway County:	2	1	3
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.6	1.0
Type(s) of Substance(s) Released: Nitric Acid Polychlorinated Biphenyls Sulfuric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
2 equipment failure 1 human error	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 firefighter	Eye irritation
Injury Outcomes:	Treated at hospital (not admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0
Interesting Events: A vehicle hit a pad mounted-transformer, causing 20 gallons of polychlorinated	

Hazardous Substance Releases Profile for Camden County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Camden County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Formic Acid Hydrofluosilicic Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Load shift

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	1
Total Number of People Evacuated:	20
Number of Methamphetamine-Related Events:	0

Interesting Events: A car stopped suddenly in front of a semi truck and the driver slammed on his brakes to avoid hitting the car. The load in the truck shifted inside the trailer. The driver pulled off into the nearest driveway and realized that acid had begun leaking out of the floor of the trailer and onto the ground. A large amount of propane was on-site at the facility where the driver parked the truck. Two nearby businesses were evacuated and remained closed until 5:00 p.m. (normal closing hours), affecting an estimated 20 employees. Officials from ten agencies responded to the incident. All

Hazardous Substance Releases Profile for Cape Girardeau County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Cape Girardeau County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Chloroform Propylene Glycol			

Primary Contributing Factors:	Secondary Contributing Factors:
Equipment failure System/process upset	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: A suspected break in an underground pipe caused 1,200 gallons of propylene

Hazardous Substance Releases Profile for Cass County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Cass County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Polychlorinated Biphenyls (2 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
Equipment failure	Fire

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

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Hazardous Substance Releases Profile for Christian County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Christian County:	1	1	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.6	0.7
Type(s) of Substance(s) Released: Acetone Ethyl Ether Methamphetamine Chemicals (2 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
3 police officers	Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2

Interesting Events: Both events involved assessment and processing of methamphetamine labs. One lab was located in a residence, while the other was discovered in a vehicle during a traffic stop. The

Hazardous Substance Releases Profile for Clay County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Clay County:	6	2	8
No. of Events Statewide:	140	165	305
Percentage of State Totals:	4.1	1.3	2.6
Type(s) of Substance(s) Released: Anthrax Battery Acid Chlorine Fluoride Paint or Coating Phosphoric Acid Potassium Chloride Sulfuric Acid Triethylamine			

Primary Contributing Factors:	Secondary Contributing Factors:
5 human error 1 illegal act 1 equipment failure 1 maintenance	Derailment Improper loading Motor vehicle accident/rollover Unauthorized/improper dumping Cross contamination

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
2 employees	Trauma Respiratory irritation
Injury Outcomes:	1 treated on-scene 1 treated at hospital (not admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: Mail was received at the Stamp Fulfillment Center on October 19. It was discovered on October 22, after several employees had touched the mail, that several bundles had come from the Brentwood mail facility in Washington, D.C., which had been contaminated with anthrax. Samples were taken and it was confirmed that anthrax was present in the Kansas City facility. The facility was closed on October 22 and did not reopen until 6:00 a.m. on November 16. Employees of the facility were offered Cipro as a precautionary measure.

A tractor trailer carrying 33,000 pounds of batteries struck a curb, causing the load to shift. The vehicle overturned and approximately 25 gallons of battery acid was released. I-35 was closed for approximately one hour while the clean up was conducted. The driver suffered trauma as a result of the accident and was treated on-scene.

A delivery driver loaded chlorine into the wrong tank. (The tank the chlorine was being loaded into was for sulfuric acid.) An estimated 100 pounds of chlorine was released. An employee assisting with the unloading suffered respiratory irritation and was treated at a hospital and released.

Hazardous Substance Releases Profile for Cole County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Cole County:	5	1	6
No. of Events Statewide:	140	165	305
Percentage of State Totals:	3.4	0.6	2.0
Type(s) of Substance(s) Released: Alcohol Chlorine Ethyl Ether Hydrochloric Acid Mercury (3 events) Methamphetamine Chemicals Paint or Coating			

Primary Contributing Factors:	Secondary Contributing Factors:
3 human error 2 equipment failure 1 illegal act	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 employee 1 police officer	Trauma Headache
Injury Outcomes:	1 treated at hospital (not admitted) 1 treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1

Interesting Events: One ounce of mercury was released at a fast food restaurant from a broken electrical switch located in the deep fat fryer. The control panel was secured and the area restricted to contain the mercury and begin clean-up procedures.

An individual donated several boxes of household goods to a charitable organization. The boxes also contained dental equipment and supplies, including mercury. Staff at the center contacted the

Hazardous Substance Releases Profile for Cooper County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Cooper County:	1	2	3
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	1.3	1.0
Type(s) of Substance(s) Released: Ammonia Paint or Coating Urethane			

Primary Contributing Factors:	Secondary Contributing Factors:
2 human error 1 equipment failure	Improper loading Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 employee	Trauma
Injury Outcomes:	Treated at hospital (admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0
Interesting Events: A tractor trailer overturned and spilled two 55 gallon drums of urethane base. The	

Hazardous Substance Releases Profile for Crawford County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Crawford County:	3	1	4
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.1	0.6	1.3
Type(s) of Substance(s) Released: Ammonia Pentachlorophenol Resin Solution (2 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
2 illegal acts 1 equipment failure 1 decomposition	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
5 employees 1 police officer	Respiratory irritation Eye irritation Dizziness/central nervous system symptoms Headache
Injury Outcomes:	3 treated at hospital (admitted) 2 treated at hospital (not admitted) 1 treatment/outcome not known
Number of Events with Evacuations:	1
Total Number of People Evacuated:	26
Number of Methamphetamine-Related Events:	1

Interesting Events: While searching a residence for suspected methamphetamine activity, a police officer opened a cooler found in the home. The cooler contained ammonia and the officer inhaled the fumes. The officer was not wearing any PPE at the time (although a mask and gloves were used later) and experienced respiratory system problems.

Gaseous vapors escaped when a drum of resin solution was opened in the mixing area of a plastic products manufacturing facility. It was believed that the material had decomposed, causing the gas to be released when the drum was opened. Five employees were taken to the hospital for with symptoms

Hazardous Substance Releases Profile for Dade County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Dade County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Ethyl Ether Hydrochloric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 police officer	Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1

Interesting Events: A police officer experienced a headache while collecting and processing evidence

Hazardous Substance Releases Profile for Dent County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Dent County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Sulfuric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	1
Total Number of People Evacuated:	24
Number of Methamphetamine-Related Events:	0

Interesting Events: A tractor trailer hauling old lead acid batteries overturned and released acid onto

Hazardous Substance Releases Profile for Dunklin County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Dunklin County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Ammonia			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act	Broken valve

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
2 volunteer firefighters	Chemical burns Thermal burns
Injury Outcomes:	Both treated on-scene
Number of Events with Evacuations:	1
Total Number of People Evacuated:	20
Number of Methamphetamine-Related Events:	1

Interesting Events: Vandals attempted to steal the ammonia from a tank and cracked the valve at the bottom of the tank. They then fled the scene. Two firemen attempted to turn off the valve but did not have the proper personal protective equipment (PPE). They did manage to turn off one valve that had not been broken but were burned and retreated. HazMat trained firemen were then called in and

Hazardous Substance Releases Profile for Franklin County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Franklin County:	7	1	8
No. of Events Statewide:	140	165	305
Percentage of State Totals:	4.8	0.6	2.6
Type(s) of Substance(s) Released: Ammonia (3 events) Ethyl Ether (2 events) Hydrochloric Acid (3 events) Hydrofluoric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
6 illegal acts 1 bad weather conditions 1 equipment failure	Equipment failure

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
5 police officers	Respiratory irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	6

Interesting Events: A private individual called the fire department and reported a vehicle on fire parked in front of a neighboring residence. When the fire department responded, they realized it was ammonia and not smoke that was escaping from the vehicle. The sheriff's department responded with personnel in appropriate PPE. The vehicle contained six small cylinders and one 150 pound cylinder of anhydrous ammonia. The temperature inside the black vehicle had risen to approximately 140 degrees the heat index outside was over 105 degrees. One oxygen cylinder had ruptured and had split open due to the elevated temperatures. The sheriff's department staff knocked out the windows of the vehicle to allow the ammonia to escape, and to cool the containers that were still inside. While removing the six intact cylinders, a valve on one of the cylinders came off and released additional ammonia. The responder working at the scene was wearing appropriate PPE and did not sustain any injuries.

Hazardous Substance Releases Profile for Gentry County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Gentry County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Phosphoric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Equipment failure	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

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Hazardous Substance Releases Profile for Greene County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Greene County:	9	31	40
No. of Events Statewide:	140	165	305
Percentage of State Totals:	6.2	19.4	13.1
Type(s) of Substance(s) Released: Acetone Acid Adhesive Ammonia (4 events) Ammonium Nitrate Chromium Trioxide Corrosive Creosote Dicyclohexylamine Epinephrine Ethyl Ether (3 events) Hydrochloric Acid (2 events) Ink Iodine Lithium Mercury (3 events) Methamphetamine Chemicals Methyl Methacrylate Methyl tert-Butyl Ether Methylene Chloride Paint or Coating (7 events) Phosphoric Acid Resin Solution Sodium Hydroxide (3 events) Sulfuric Acid Toluene Toluene-2,4-Diisocyanate Vinyl Toluene			

Primary Contributing Factors:	Secondary Contributing Factors:
20 human error 10 equipment failure 5 illegal acts 5 not known	7 forklift puncture 6 improper loading 2 equipment failure 2 loose caps 2 motor vehicle accident/rollover 1 derailment 1 explosion 1 unauthorized/improper dumping

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
4 police officers 2 employees	Trauma Respiratory irritation

	Eye irritation Headache
Injury Outcomes:	4 treatment/outcome not known 2 treated at hospital (not admitted)
Number of Events with Evacuations:	2
Total Number of People Evacuated:	11
Number of Methamphetamine-Related Events:	5
<p>Interesting Events: A methamphetamine lab exploded in a private residence. Five adults in the home were arrested after they evacuated, and two children were turned over to the Division of Family Services. No injuries were sustained</p> <p>A private individual found a container of mercury in the garage and opened it. Mercury was spilled in the garage and a standard vacuum cleaner was used to recover the material. The vacuum was then reportedly used to clean up mercury found in the home. EPA responded and oversaw cleanup and monitoring.</p> <p>Four police officers suffered adverse health effects in four separate events related to the collection and processing of methamphetamine lab materials. Two were meth labs found in vehicles during traffic</p>	

Hazardous Substance Releases Profile for Grundy County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Grundy County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Isopropylamine Glyphosate			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
3 members of the general public	Trauma
Injury Outcomes:	All treated at hospital (admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0
Interesting Events: An individual in a privately owned vehicle passed another vehicle at the crest of	

Hazardous Substance Releases Profile for Hickory County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Hickory County:	1	1	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.6	0.7
Type(s) of Substance(s) Released: Ammonia Fertilizer Methamphetamine Chemicals Pesticide			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	Fire

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 police officer	Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1

Interesting Events: A police officer stopped a vehicle and discovered a methamphetamine lab. The officer was not wearing any personal protective equipment and experienced a headache while collecting and processing the evidence. The officer was exposed for over three hours.

An agricultural supply facility caught fire and an unknown amount of pesticides and fertilizers were consumed in the fire. The cause of the fire was not known, although there was severe lightning in the

Hazardous Substance Releases Profile for Holt County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Holt County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Atrazine			

Primary Contributing Factors:	Secondary Contributing Factors:
Equipment failure	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

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Hazardous Substance Releases Profile for Howard County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Howard County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Mercury			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Thermometer broke

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: An individual broke a thermometer in a private residence and an unknown amount of mercury was released. The individual contacted the EPA for guidance on how to properly clean up and dispose of the mercury.

Updated 3/3/03

Hazardous Substance Releases Profile for Iron County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Iron County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Lead			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 employee	Trauma
Injury Outcomes:	Treated at hospital (not admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0
Interesting Events: Lead ore concentrate was released when the driver lost control of the truck and it	

Hazardous Substance Releases Profile for Jackson County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Jackson County:	11	20	31
No. of Events Statewide:	140	165	305
Percentage of State Totals:	7.6	12.5	10.2
Type(s) of Substance(s) Released: 1,1,1,2-Tetrafluoroethane 4,4'-Methylenedianiline Adhesive Ammonia (3 events) Ammonium Nitrate Ethanol Ethanolamine (2 events) Hydrochloric Acid Hydrofluoric Acid Ink Isopropylamine Glyphosate Mercury (3 events) Methylene Chloride N,N-Dimethylisopropanolamine Nonylphenol Pesticide Phosphorus Plastic Polychlorinated Biphenyls Potassium Hydroxide Resin Solution (3 events) Sodium Hydroxide Sulfuric Acid Xylene			

Primary Contributing Factors:	Secondary Contributing Factors:
29 human error 6 equipment failure 4 not known 1 illegal act	7 improper loading 4 forklift puncture 3 loose fitting/valve 2 motor vehicle accident/rollover 1 thermostat broke 1 unauthorized/improper dumping

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
4 employees 3 professional firefighters 3 members of the general public	Trauma Respiratory irritation Chemical burns
Injury Outcomes:	3 treated at hospital (admitted) 3 treated at hospital (not admitted) 3 treated on-scene 1 death
Number of Events with Evacuations:	1

Total Number of People Evacuated:	30
Number of Methamphetamine-Related Events:	0
<p>Interesting Events: A loose fitting on a tank car caused an unknown amount of ammonia to be released at a rail yard. Three employees were taken to the hospital for observation; one of the employees received treatment for respiratory irritation. A HazMat response team was called by the railroad to assess the tank car and secure the release.</p> <p>The driver of a semi truck carrying acid batteries braked hard to avoid hitting a vehicle which had suddenly stopped in front of the truck. Batteries in the trailer tipped over and spilled acid onto the pavement. An unknown amount of acid was released inside the trailer as well. Authorities responded to the scene and it was thought no more acid was leaking. The acid that was released to the ground was cleaned up. Approximately 27 miles down the road, it was discovered that acid was still leaking from the trailer when the truck entered a weigh station.</p> <p>Several sphygmomanometers in a storage room at a church were broken. It was reported that children had entered the storage room, found the blood pressure cuffs and handled the mercury that had spilled. Droplets of mercury were present in several areas of the church, as well as the ground outside of the church. The church was closed. Department of Natural Resources (DNR) staff responded to conduct the cleanup and performed monitoring with a Jerome meter. The Environmental Protection Agency</p>	

Hazardous Substance Releases Profile for Jasper County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Jasper County:	5	6	11
No. of Events Statewide:	140	165	305
Percentage of State Totals:	3.4	3.8	3.6
Type(s) of Substance(s) Released: Acetic Acid Ammonia (4 events) Mercury (2 events) Methamphetamine Chemicals Methylene Chloride Paint or Coating Silicone Sulfuric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
4 equipment failure 3 illegal acts 3 human error 1 not known	Improper loading

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
8 police officers 2 members of the general public	Respiratory irritation Chemical burns Headache
Injury Outcomes:	8 treatment/outcome not known 1 treated at hospital (admitted) 1 death
Number of Events with Evacuations:	2
Total Number of People Evacuated:	40
Number of Methamphetamine-Related Events:	3

Interesting Events: Two individuals were traveling on the highway and had three propane tanks filled with anhydrous ammonia in the back seat. One of the tanks ruptured and the car veered off the road. Both individuals were severely burned and were life flighted to the nearest burn unit; one individual died as a result of the injuries. A police officer responding to the scene also experienced respiratory irritation and headache.

A student brought a pill bottle containing mercury to school. During math class, he poured the mercury into his hand, then into the hand of a classmate, who dropped it on the floor. The mercury scattered over the floor. The teacher was informed and the classroom was evacuated. A HazMat contractor was hired to clean up the spill and conduct air monitoring after the clean up was complete. The room was reopened for classes the following day.

Six police officers suffered from respiratory irritation and headache while arresting two subjects and processing evidence from a methamphetamine lab. None of the officers wore any personal protective equipment. The officers were exposed for approximately one hour.

Hazardous Substance Releases Profile for Jefferson County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Jefferson County:	4	3	7
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.8	1.9	2.3
Type(s) of Substance(s) Released: Ammonia Chloroethane Chlorpyrifos Ethyl Ether Explosives Hydrochloric Acid (2 events) Paint or Coating Sulfuric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
3 human error 1 illegal act 1 equipment failure 1 maintenance 1 not known	2 motor vehicle accident/rollover 1 explosion 1 improper loading

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
4 employees 1 police officer	Trauma Thermal burns Smoke inhalation
Injury Outcomes:	3 treated at hospital (admitted) 2 treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1

Interesting Events: A drum containing hydrochloric was not properly secured and fell off the bed of a pickup truck. The drum was struck by another vehicle and leaked its contents over a 125 foot stretch of the highway. The fire department and Jefferson County HazMat team responded. The highway was closed for four hours.

Three employees at a fireworks manufacturing facility suffered from trauma, thermal burns and smoke inhalation when material in the facility exploded due to an unknown cause. All three were admitted to the hospital.

Hazardous Substance Releases Profile for Johnson County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Johnson County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Isopropylamine Glyphosate Lindane			

Primary Contributing Factors:	Secondary Contributing Factors:
Bad weather conditions Illegal act	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: 200 gallons of isopropylamine glyphosate were released at a farm supply facility due to apparent theft. The chemical was contained in a 1,000 gallon poly tank, which was housed in a storage building. It appeared that someone stole approximately 800 gallons and left the tank valve open, allowing the remainder of the tank contents to be released to the floor of the storage building.

Updated 3/3/03

Hazardous Substance Releases Profile for Lafayette County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Lafayette County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Sulfuric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: The driver of a semi truck carrying acid batteries braked hard to avoid hitting a vehicle which had suddenly stopped in front of the truck. Batteries in the trailer tipped over and spilled acid onto the pavement of a Jackson County highway. An unknown amount of acid was released inside the trailer as well. Authorities responded to the scene and it was thought no more acid was leaking. The acid that was released to the ground was cleaned up. Approximately 27 miles down the road, in

Hazardous Substance Releases Profile for Lawrence County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Lawrence County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Acetone Acid (2 events) Hydrogen Peroxide Iodine (2 events) Phosphorus Solvent (2 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
2 police officers	Respiratory irritation Eye irritation
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2
Interesting Events: Two events resulted in injuries to two police officers entering buildings where known or suspected methamphetamine production was occurring. Both officers wore only eye protection when entering the buildings. Both were exposed for three hours.	

Updated 3/3/03

Hazardous Substance Releases Profile for Lincoln County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Lincoln County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Ammonia			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act	Human error

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
5 volunteer firefighters	Respiratory irritation
Injury Outcomes:	All treated at hospital (not admitted)
Number of Events with Evacuations:	1
Total Number of People Evacuated:	100
Number of Methamphetamine-Related Events:	1

Interesting Events: Approximately 540 gallons of ammonia were released at a fertilizer mixing facility as a result of theft or attempted theft. The release occurred at 6:30 on a Sunday morning. An estimated 100 residents were evacuated. Due to the fog, the ammonia was slow to dissipate. Five firefighters suffered injuries when they entered an area which had been declared a safe zone by the

Hazardous Substance Releases Profile for Macon County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Macon County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Sodium Hydroxide			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0
Interesting Events: Approximately 50 gallons of sodium hydroxide were released when a delivery hose was not completely secured before beginning the transfer. The driver immediately shut down the transfer.	

Updated 3/3/03

Hazardous Substance Releases Profile for Madison County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Madison County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Alcohol Ethyl Ether Hydrochloric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
2 police officers	Respiratory irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1
Interesting Events: Two police officers suffered injuries when responding to a methamphetamine lab. Both officers reported wearing gloves and a respirator (type unknown) and were exposed for four hours while collecting and processing the chemicals.	

Updated 3/3/03

Hazardous Substance Releases Profile for Marion County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Marion County:	0	4	4
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	2.5	1.3
Type(s) of Substance(s) Released: Hazardous Waste Liquid Solvent (2 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
2 human error 2 not known	Loose fittings

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: Five gallons of mixed solvents sloshed out of a tanker truck while in transit. A cap on top of the tanker used for ventilation while being filled was left open. The material was released along an undetermined length of highway before it was discovered.

Updated 3/3/03

Hazardous Substance Releases Profile for McDonald County, 2001

	Fixed Facility	Transportation	Total
No. of Events in McDonald County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Ammonia			

Primary Contributing Factors:	Secondary Contributing Factors:
Equipment failure	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: A small pinhole developed in the refrigeration line at a poultry processing facility,

Hazardous Substance Releases Profile for Moniteau County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Moniteau County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Ammonia			

Primary Contributing Factors:	Secondary Contributing Factors:
Equipment failure	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	1
Total Number of People Evacuated:	250
Number of Methamphetamine-Related Events:	0

Interesting Events: A flange on the refrigeration system at a poultry processing facility developed a pin hole leak. 250 employees were evacuated and the plant remained closed until the leak was secure and the odors had dissipated. The plant reopened for the morning shift the following day.

Updated 3/3/03

Hazardous Substance Releases Profile for Montgomery County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Montgomery County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Polyurethane			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: A drum fell off the back of the truck during a motor vehicle accident and ruptured when it hit the pavement, releasing 70 gallons of polyurethane. The material solidified and was cleaned up by a contractor the following day.

Updated 3/3/03

Hazardous Substance Releases Profile for New Madrid County, 2001

	Fixed Facility	Transportation	Total
No. of Events in New Madrid County:	0	2	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	1.3	0.7
Type(s) of Substance(s) Released: Hydrochloric Acid Pesticide			

Primary Contributing Factors:	Secondary Contributing Factors:
Bad weather conditions Human error	Forklift puncture Improper loading

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: The driver of a transport truck drove through a severe storm with strong micro-burst winds. A container of pesticide chemicals was pulled off the truck by the wind and fell onto the highway, spilling approximately four gallons. The fire department responded, as well as the Highway Patrol and the Department of Natural Resources. The highway was closed for over three hours.

Updated 3/3/03

Hazardous Substance Releases Profile for Pemiscot County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Pemiscot County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: 3-Dimethylaminopropylamine			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Improper loading

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: A flat bed truck was observed to have material leaking as it traveled on the interstate. After pulling to the shoulder, a 55 gallon drum of 3-Dimethylaminopropylamine was inspected and was found to have fallen and was releasing its contents. The Department of Natural

Hazardous Substance Releases Profile for Pettis County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Pettis County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Ammonia (2 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act Equipment failure	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1
Interesting Events: An individual attempted to steal anhydrous ammonia from a poultry processing	

Hazardous Substance Releases Profile for Pike County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Pike County:	4	1	5
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.8	0.6	1.6
Type(s) of Substance(s) Released: Ammonia (3 events) Chlorine Formaldehyde			

Primary Contributing Factors:	Secondary Contributing Factors:
2 human error 2 equipment failure 1 illegal act	Maintenance

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1

Hazardous Substance Releases Profile for Platte County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Platte County:	1	1	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.6	0.7
Type(s) of Substance(s) Released: Ammonia 2,4-D/Pendimethalin mixture			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act Equipment failure	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1

Interesting Events: While a truck was en route to deliver a herbicide mixture to a soybean field, the delivery hose developed a leak and the herbicide trickled along the roadway for 1/2 mile. Five vehicles were sprayed with the material.

Hazardous Substance Releases Profile for Polk County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Polk County:	3	0	3
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.1	0.0	1.0
Type(s) of Substance(s) Released: Acetone Ammonia Ethanol Hydrochloric Acid Iodine Mercury Phosphorus			

Primary Contributing Factors:	Secondary Contributing Factors:
2 illegal acts 1 equipment failure	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
2 police officers	Respiratory irritation Eye irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2

Interesting Events: A barometer used to calibrate respiratory equipment in a hospital had a defective container which held the mercury and it developed a leak. The hospital's safety team cleaned up the mercury that had spilled and packed the container for pick-up by the Department of Natural Resources.

During two separate events, two police officers were injured while responding to a building where

Hazardous Substance Releases Profile for Pulaski County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Pulaski County:	4	0	4
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.8	0.0	1.3
Type(s) of Substance(s) Released: Glue (4 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
Error in labeling process	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
3 employees	Respiratory irritation Skin irritation
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: Two employees at a discount store complained of skin and respiratory irritation both on two consecutive dates while unloading boxes of spaghetti sauce. They reported a cloud of white dust escaped from the boxes when they were opened and immediately caused the symptoms. This happened during the same time that the anthrax events were occurring in Florida, Washington, D.C., New Jersey and New York. The Department of Natural Resources, Missouri State Highway Patrol, and the local fire and police department responded after the employees experienced symptoms on the second day. It was determined that the material had a high pH and was not anthrax. After investigating the packages, it appeared that the process of affixing the labels to the jars of gravy in the boxes had failed. The substance released in the air was a very fine, dry powder which, when mixed with water, formed a glue to adhere the label to the jar. It appeared that little or no water was involved in this process; therefore, the glue remained in powdered form and the labels were not stuck to the jars. The high pH levels of the glue caused the injuries. It is not known what caused the labeling process to

Hazardous Substance Releases Profile for Ralls County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Ralls County:	0	2	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	1.3	0.7
Type(s) of Substance(s) Released: Ammonium Nitrate Paint or Coating			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Load shift Barge hit dam

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: Two barges broke away from a tow and collided with a lock and dam. Barrels of the ammonium nitrate were broken open and over 56,000 gallons were released to the river. Authorities were not notified of this event until four days later. No clean up was possible because of the amount of time that had elapsed.

Updated 3/3/03

Hazardous Substance Releases Profile for Randolph County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Randolph County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Ethyl Ether (2 events) Toluene			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
2 police officers	Respiratory irritation Eye irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2
Interesting Events: Two events involving methamphetamine production resulted in two police officers suffering injuries when responding to the premises. One officer wore only gloves for protection, while the other officer wore no personal protective equipment.	

Updated 3/3/03

Hazardous Substance Releases Profile for Ray County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Ray County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Diethylenetriamine			

Primary Contributing Factors:	Secondary Contributing Factors:
Equipment failure	Human error

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 employee	Chemical burns
Injury Outcomes:	Treated at hospital (not admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: As a trailer was being pressured up to unload at a plastics manufacturing facility, a leak developed. An employee put a bucket under the leak to catch the diethylenetriamine. While doing this the employee's shoulder struck a valve and opened it. The substance was released into the employee's back, a single chemical burn.

Updated 3/3/0

Hazardous Substance Releases Profile for Reynolds County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Reynolds County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Battery Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: A tractor trailer truck carrying over 43,000 pounds of batteries overturned and split in half, spilling the batteries on the highway and releasing an unknown amount of acid. The responsible did not take emergency action to remediate the spill within the normal time frame to do so, and the Environmental Protection Agency took the lead at the site for cleanup approximately 18 hours after the spill had occurred.

Updated 3/3/03

Hazardous Substance Releases Profile for Scott County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Scott County:	1	1	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.6	0.7
Type(s) of Substance(s) Released: Methyl Ethyl Ketone Phosphine			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Fire Improper loading

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: A fire started in a grain bin filled with wheat. The cause of the fire was not known. The wheat had been treated with Phostoxon, a pesticide. When firefighters attempted to extinguish the fire with water, the water reacted with the Phostoxon and produced phosphine gas. Highway 114 and Business Route 60 were closed for almost nine hours.

Updated 3/3/03

Hazardous Substance Releases Profile for St. Charles County, 2001

	Fixed Facility	Transportation	Total
No. of Events in St. Charles County:	3	16	19
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.1	10.0	6.2
Type(s) of Substance(s) Released: Acetic Acid Adhesive Ammonia Chlorine Corrosive Cyfluthrin Ferric Sulfate Hydrochloric Acid Hydrofluoric Acid Isopropanol Lambda-cyhalothrin Nitromethane Paint or Coating (3 events) Resin Solution (3 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
13 human error 3 equipment failure 2 not known 1 unauthorized/improper dumping	10 improper loading 3 forklift puncture 1 loose bungs 1 load shift

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0
Interesting Events: The majority of events occurring in St. Charles County were minor releases at transport trucking terminals due to improper loading procedures.	

Updated 3/3/03

Hazardous Substance Releases Profile for St. Clair County, 2001

	Fixed Facility	Transportation	Total
No. of Events in St. Clair County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Acid Methamphetamine Chemicals Phosphorus Solvent			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 police officer	Respiratory irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1

Interesting Events: A police officer was injured when responding to a report of a suspected methamphetamine lab. The officer reported wearing adequate personal protective equipment (PPE); however, it is not known what type of PPE was worn. The officer was exposed to the substances for two hours.

Updated 3/3/03

Hazardous Substance Releases Profile for St. Louis City , 2001

	Fixed Facility	Transportation	Total
No. of Events in St. Louis City :	18	25	43
No. of Events Statewide:	140	165	305
Percentage of State Totals:	12.4	15.6	14.1
Type(s) of Substance(s) Released: 4,4'-Methylenebis(2-chloroaniline) Acetic Acid Adhesive (3 events) Ammonia (2 events) Chloroform (5 events) Dichlorobenzene EPA D001: Ignitable Waste (2 events) Ethylene Glycol (2 events) Hydrochloric Acid (2 events) Maleic Anhydride Methyl Ethyl Ketone Peroxide n-Butyl Acetate Nickel Sulfate Oxygen Polychlorinated Biphenyls Potassium Hydroxide (3 events) Resin Solution (5 events) Sodium Hydroxide Sulfuric Acid Surfactant Tetraethylenepentamine Xylene			

Primary Contributing Factors:	Secondary Contributing Factors:
27 human error 8 equipment failure 5 not known 1 inadequate cooling 1 maintenance 1 system/process upset	11 improper loading 6 forklift puncture 3 equipment failure 2 loose caps/valves 1 explosion 1 motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
34 employees	Trauma Respiratory irritation Skin irritation
Injury Outcomes:	25 treated on-scene 8 treated at hospital (not admitted) 1 death
Number of Events with Evacuations:	2
Total Number of People Evacuated:	36
Number of Methamphetamine-Related Events:	0

Interesting Events: A package containing bromomethylbutene was discovered leaking at a shipping facility and a small puddle accumulated on the floor. Employees began exhibiting symptoms and the fire department was called. 30 employees were evacuated and complained of eye irritation. They were instructed to rinse out their eyes at a nearby truck rental facility. They were also instructed to wash their hands and arms or any area which may have had contact with the substance. Six of the 30 employees were transported to a nearby clinic and were treated for respiratory irritation. Facility officials noted that none of the employees admit to touching, handling or dropping the box. The facility has changed procedures so that no packages containing hazardous materials are run through the line on the belt; rather, they are handed individually from staff directly to the driver.

An employee was transferring a large tank of liquid oxygen from a truck to a storage area. The metal tank was dropped, striking the concrete and creating a spark, which was fed by the oxygen. The tank exploded, followed by three other tanks. The employee died as a result of trauma from the explosions.

Updated 3/3/03

Hazardous Substance Releases Profile for St. Louis County, 2001

	Fixed Facility	Transportation	Total
No. of Events in St. Louis County:	7	8	15
No. of Events Statewide:	140	165	305
Percentage of State Totals:	4.8	5.0	4.9
Type(s) of Substance(s) Released: Acetic Acid Acrylic Polymer Ammonia Chlorine Bleach Coolant Hydrochloric Acid Mercury (2 events) Phosphoric Acid Potassium Hydroxide Resin Solution Sodium Nitrate Xylene			

Primary Contributing Factors:	Secondary Contributing Factors:
6 human error 4 equipment failure 3 not known 1 bad weather conditions 1 illegal act	Equipment failure Explosion Improper loading Loose bungs Loose caps Motor vehicle accident/rollover Nail puncture

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
6 employees	Respiratory irritation
Injury Outcomes:	5 treated on-scene 1 treated at hospital (not admitted)
Number of Events with Evacuations:	1
Total Number of People Evacuated:	20
Number of Methamphetamine-Related Events:	1

Interesting Events: A passenger on a TWA flight brought two one-gallon plastic bottles of bleach in the carry on bag and placed it overhead. The bleach spilled from both bottles. The First Officer and a flight attendant attempted to clean up the spill during the flight and were overcome by fumes and required oxygen.

Several homes were evacuated at 2:15 a.m., shortly before a neighboring residence involving methamphetamine production was seized by police. The residents were evacuated as a precautionary measure, in the event any of the chemicals in the home were released. The estimated 20 individuals were allowed to return to their homes two hours later.

Hazardous Substance Releases Profile for St. Francois County, 2001

	Fixed Facility	Transportation	Total
No. of Events in St. Francois County:	4	2	6
No. of Events Statewide:	140	165	305
Percentage of State Totals:	2.8	1.3	2.0
Type(s) of Substance(s) Released: Acetone Ammonia (2 events) Ethyl Ether (3 events) Hydrochloric Acid (2 events) Iodine Lead Methamphetamine Chemicals Phosphorus Zinc			

Primary Contributing Factors:	Secondary Contributing Factors:
4 illegal acts 2 equipment failure	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
6 police officers	Respiratory irritation Headache Dizziness/central nervous system symptoms
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	4

Interesting Events: Six police officers suffered injuries during four separate events related to methamphetamine production. Four officers reported wearing a respirator (type unknown), while two officers wore only gloves for protection. The length of exposure for the six officers injured ranged from one to three hours.

Updated 3/3/03

Hazardous Substance Releases Profile for Ste. Genevieve County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Ste. Genevieve County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Ammonia (2 events) Ethyl Ether Hydrochloric Acid (2 events)			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
3 police officers	Respiratory irritation Headache
Injury Outcomes:	2 treatment/outcome not known 1 treated at hospital (not admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2
Interesting Events: Three police officers were injured during two events relating to methamphetamine production. The officers were collecting and processing materials from clandestine	

Hazardous Substance Releases Profile for Stoddard County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Stoddard County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Sulfuric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Improper loading

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: A contractor was transporting a fork truck battery. The battery was not properly secured. The battery fell from the truck, causing 40 gallons of sulfuric acid to be released.

Updated 3/3/03

Hazardous Substance Releases Profile for Stone County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Stone County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Hydrochloric Acid (2 events) Methamphetamine Chemicals (2 events) Sulfuric Acid Toluene			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
4 police officers	Respiratory irritation Eye irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2
Interesting Events: Four police officers were injured in two separate events involving methamphetamine production. The officers were collecting and processing materials from a methamphetamine lab. All of the officers wore only gloves for protection. The officers were exposed to the substances for over four hours.	

Updated 3/3/03

Hazardous Substance Releases Profile for Sullivan County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Sullivan County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Ammonia			

Primary Contributing Factors:	Secondary Contributing Factors:
Equipment failure	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

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Hazardous Substance Releases Profile for Taney County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Taney County:	1	2	3
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	1.3	1.0
Type(s) of Substance(s) Released: Ammonia Ethyl Ether Methamphetamine Chemicals Solvent Sulfuric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
6 police officers	Skin irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	3
Interesting Events: Six police officers were involved in two events involving methamphetamine production at private residences, and one involving a mobile methamphetamine laboratory discovered during a traffic stop. Five officers wore gloves, while one officer used no personal protective equipment. The officer injured during the traffic stop was exposed for over one hour. The officers responding to the private residences were exposed for four hours.	

Updated 3/3/03

Hazardous Substance Releases Profile for Texas County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Texas County:	2	1	3
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.6	1.0
Type(s) of Substance(s) Released: Acid Ammonia Ethyl Ether Hydrochloric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act Equipment failure Unauthorized/improper dumping	Maintenance

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 police officer 1 member of the general public	Respiratory irritation Chemical burns
Injury Outcomes:	1 treatment/outcome not known 1 treated at hospital (not admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2

Interesting Events: A member of the general public was walking to a neighbor's house and discovered an abandoned container in the ditch. The victim picked up the container and shook it, and acid poured onto his back and arm. He was transported to the burn unit for treatment. The materials had been discarded from a methamphetamine lab.

A police officer suffered from respiratory irritation when serving a search warrant for suspected methamphetamine activity. The officer wore only gloves for protection and was exposed to the materials for two hours.

Updated 3/3/03

Hazardous Substance Releases Profile for Vernon County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Vernon County:	2	0	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	1.4	0.0	0.7
Type(s) of Substance(s) Released: Acetone Ammonia Sulfuric Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
4 police officers	Respiratory irritation
Injury Outcomes:	2 treatment/outcome not known 2 treated at hospital (not admitted)
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2
Interesting Events: Two individuals were observed stealing anhydrous ammonia from a tank. The police officers pursued them and stopped the vehicle. As one of the suspects exited the vehicle, he opened a thermos containing the ammonia and threw it at the officers. The vapor caused respiratory system irritation. The officers were treated at a local hospital.	

Updated 3/3/03

Hazardous Substance Releases Profile for Warren County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Warren County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Acid			

Primary Contributing Factors:	Secondary Contributing Factors:
Not known	Fire

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

Interesting Events: Forty gallons of acid were released during a fire at an agricultural equipment facility. The fire began after power was restored following an outage due to a thunderstorm; however, the exact cause of the fire was not known. Over 125 firefighters responded to the scene.

Updated 3/3/03

Hazardous Substance Releases Profile for Washington County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Washington County:	1	0	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.0	0.3
Type(s) of Substance(s) Released: Acid Ethyl Ether Iodine Phosphorus			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal act	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
1 police officer	Respiratory irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	1
Interesting Events: A police officer was injured while collecting and processing materials from a methamphetamine lab in a private residence. The officer wore only gloves for protection and was exposed to the materials for 2 1/2 hours.	

Updated 3/3/03

Hazardous Substance Releases Profile for Webster County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Webster County:	1	1	2
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.7	0.6	0.7
Type(s) of Substance(s) Released: Ethyl Ether Hydrochloric Acid Sodium Metal			

Primary Contributing Factors:	Secondary Contributing Factors:
Illegal acts	None

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
2 police officers	Respiratory irritation Headache
Injury Outcomes:	Treatment/outcome not known
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	2
Interesting Events: Two police officers were injured during two events involving the collection and processing of methamphetamine lab materials. The officers wore only gloves for protection and were exposed to the materials for two hours.	

Updated 3/3/03

Hazardous Substance Releases Profile for Wright County, 2001

	Fixed Facility	Transportation	Total
No. of Events in Wright County:	0	1	1
No. of Events Statewide:	140	165	305
Percentage of State Totals:	0.0	0.6	0.3
Type(s) of Substance(s) Released: Fertilizer			

Primary Contributing Factors:	Secondary Contributing Factors:
Human error	Motor vehicle accident/rollover

Number of Victims by Type:	Types of Adverse Health Effects Sustained:
None	N/A
Injury Outcomes:	N/A
Number of Events with Evacuations:	0
Total Number of People Evacuated:	0
Number of Methamphetamine-Related Events:	0

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Hazardous Substance Releases Profile for Missouri , 2001

	Fixed Facility	Transportation	Total
No. of Events in Missouri :	140	165	305
No. of Events Statewide:	140	165	305
Percentage of State Totals:			
Type(s) of Substance(s) Released:			

Primary Contributing Factors:	Secondary Contributing Factors:
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Number of Victims by Type:	Types of Adverse Health Effects Sustained:
74 employees 63 police officers 9 members of the general public 7 volunteer firefighters 3 profesional firefighters 1 firefighter, type unknown	
Injury Outcomes:	67 injuries reported by official (outcome not known) 36 treated on-scene 31 transported to hospital (not admitted) 20 transported to hospital (admitted) 3 deaths
Number of Events with Evacuations:	18
Total Number of People Evacuated:	3197
Number of Methamphetamine-Related Events:	116